



U. S. Nuclear Regulatory Commission
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JUL 24 2012

DOMINION ENERGY KEWAUNEE, INC.
KEWAUNEE POWER STATION
2012 INSERVICE INSPECTION SUMMARY REPORT

As required by American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI, 10 CFR 50.55a, and Wisconsin Administrative Code, Department of Safety and Professional Services, SPS 341.55(3), various inservice inspection (ISI) examinations were performed during the 2012 refueling outage at the Kewaunee Power Station (KPS). The refueling outage took place from April 6, 2012 through May 10, 2012. This letter transmits the ISI Summary Report as required by paragraph IWA-6230 of ASME Section XI. ISI activities performed at KPS during the period July 28, 2011 through April 5, 2012 are also covered by this report.

Two separate ASME Section XI ISI programs are implemented at KPS. One program is for pressure retaining piping/vessels and component supports, and the other program is for the metal containment (MC). The 2012 refueling outage inservice inspections met the requirements of these two distinct inspection program intervals as listed below:

- Class 1, Class 2, and Class 3 component inspections were performed for the second inspection outage of the third period of the fourth interval. These inspections met the requirements of ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda with implementation in accordance with the KPS Fourth Ten-Year ISI Program 2004-2014.
- Class MC component inspections were performed for the second inspection outage of the second period of the second interval. These inspections met the requirements of ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition, 2003 Addenda with implementation in accordance with the KPS Second Ten-Year ISI Class MC Program 2006-2016.

The following examinations and tests were performed for Class 1, Class 2, and Class 3 components and their supports:

- Pressurizer heater penetrations
- Steam generator nozzle to safe end welds
- Steam generator channel head to tubesheet weld
- Class 1 and Class 2 piping welds
- Class 1, Class 2 and Class 3 piping and component supports and hangers
- Class 1 valves

A047
NRR

- Class 1 and Class 2 steam generator primary manway bolting, pressurizer manway bolting, flange bolting and valve bonnet bolting
- Steam generator main steam nozzle to vessel weld and main steam nozzle inner radius
- Letdown heat exchanger circumferential weld
- Charging pump pulsation dampener circumferential weld
- Seal water injection filter circumferential weld
- Regenerative heat exchanger circumferential weld and welded attachment
- Class 2 safety injection pump casing weld
- Class 2 preservice of safety injection piping and supports
- Class 2 preservice of residual heat removal piping and supports
- Class 1 system leakage test
- Class 2 and Class 3 system leakage tests

The following items were examined for the Class MC reactor building containment vessel:

- Accessible surface areas
- Bolted connections

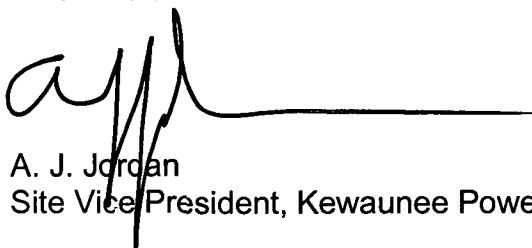
Hydraulic snubbers were examined as required by KPS Snubber Program.

Documentation summarizing the ISI activities performed during the KPS 2012 refueling outage and associated results is provided in attachments 1-5 of this letter. The final reports for each of these examinations are maintained in the Quality Assurance/Quality Control Records Vault at KPS.

The next refueling outage at KPS is tentatively scheduled for the fall of 2013.

If you have questions or require additional information, please feel free to contact Mr. Jack Gadzala at 920-388-8604.

Very truly yours,



A. J. Jordan
Site Vice President, Kewaunee Power Station

Commitments made by this letter: NONE

Attachments:

1. Summary of Relevant Conditions and Disposition.
2. Examination Summary for Class 1, Class 2, and Class 3 Inservice Inspection Program for Fourth Ten-Year Interval.
3. Examination Summary for Class MC Inservice Inspection Program For Second Ten-Year Interval.
4. Summary of Examinations that were Limited by Geometric, Metallurgical, or Design/Access Restrictions (10 Total).
5. Form OAR-1 Owner's Activity Report; Table 1 Items with Flaws or Relevant Conditions that Required Evaluation for Continued Service; and Table 2 Abstract of Repair/Replacement Activities Required for Continued Service.

cc: Regional Administrator
U. S. Nuclear Regulatory Commission
Region III
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NRC Senior Resident Inspector
Kewaunee Power Station

ATTACHMENT 1

2012 INSERVICE INSPECTION SUMMARY REPORT

SUMMARY OF RELEVANT CONDITIONS AND DISPOSITION

**KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.**

SUMMARY OF RELEVANT CONDITIONS AND DISPOSITION

Type or Location of Relevant Conditions	Examination Method	No. of Relevant Conditions (Description)
1. Piping Supports and Hangers	Visual (VT-3)	6 (Items)
2. Valve Bonnet Bolting	Visual (VT-3)	2 (Items)
3. System Leakage Pressure Tests	Visual (VT-2)	19 (Items)

Dispositioning of Class 1, Class 2, and Class 3 relevant conditions have been completed in accordance with the rules of American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda for Fourth Ten-Year Interval examinations. Dispositioning of Class MC relevant conditions has been completed in accordance with the rules of ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition, 2003 Addenda for Second Ten-Year Interval examinations. Applicable codes, standards, and engineering criteria were used to disposition indications associated with the non-code-required examinations. Relevant conditions for Class 1, Class 2, Class 3, and Class MC components have been summarized with disposition as noted below:

1. Visual (VT-3) relevant conditions on 3" auxiliary feedwater piping supports FDW-H41 and FDW-H41B were evaluated and accepted by Kewaunee Power Station (KPS) Engineering and Inservice Inspection (ISI) personnel. All dispositioned relevant conditions were reviewed by the Authorized Nuclear Inservice Inspector.
2. Visual (VT-3) relevant condition on 2" safety injection support RSI-H7 was evaluated and accepted by KPS Engineering and ISI personnel. The dispositioned relevant condition was reviewed by the Authorized Nuclear Inservice Inspector.
3. Visual (VT-3) relevant conditions on 6" main steam valve supports MSRH-H1 and MSRH-H2 were evaluated, repaired, and accepted by KPS Engineering and ISI personnel. All dispositioned relevant conditions were reviewed by the Authorized Nuclear Inservice Inspector.
4. Visual (VT-3) relevant condition on 8" Service Water Support RSW-H62 was evaluated, repaired, and accepted by KPS Engineering and ISI personnel. The dispositioned relevant condition was reviewed by the Authorized Nuclear Inservice Inspector.
5. Visual (VT-3) relevant conditions recorded on valve bonnet bolting (2 valves), were evaluated and accepted by KPS Engineering and ISI personnel. The dispositioned relevant conditions were reviewed by the Authorized Nuclear Inservice Inspector.
6. Visual (VT-2) relevant conditions recorded during system leakage pressure tests (19 Items) were evaluated and accepted by KPS Engineering and ISI personnel. The dispositioned relevant condition was reviewed by the Authorized Nuclear Inservice Inspector.

ATTACHMENT 2

2012 INSERVICE INSPECTION SUMMARY REPORT

**EXAMINATION SUMMARY FOR
CLASS 1, CLASS 2, AND CLASS 3 INSERVICE INSPECTION PROGRAM
FOR FOURTH TEN-YEAR INTERVAL**

**KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.**

**KEWAUNEE POWER STATION
4TH INTERVAL: 3RD PERIOD: 2ND OUTAGE
2012
EXAMINATION SUMMARY**

INTRODUCTION

An Inservice Inspection (ISI) Program (Scheduled and Augmented) was performed at the Kewaunee Power Station from July 28, 2011 through April 5, 2012 (Non-Refueling Outage) and from April 6, 2012 through May 10, 2012 (Closing of G1 following Refueling Outage) by Kewaunee Power Station personnel, Lambert, MacGill, and Thomas, Inc.(LMT Inc.) and Industrial Testing Laboratories Services (ITLS) examination personnel.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda
- Westinghouse NASL-06-8: Pressurizer Heater Sleeve Cracking
- Reactor Vessel Upper Internals Guide Tube Guide Cards per MRP-227-A: Pressurized Water Reactor Internals Inspection and Evaluation Guidelines

The Inservice Inspection Program Plan and Augmented Inspection Program Plan located under Tab C were prepared by Kewaunee Power Station for the 4th Interval: 3rd Period: 2nd Outage as identified in the Kewaunee Power Station Fourth 10-Year Inservice Inspection (ISI) Program 2004 – 2014. Examinations during this Refueling Outage were performed to continue 4th Interval; 3rd Period Examination Requirements of ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda and Kewaunee Power Station Fourth 10-Year Inservice Inspection (ISI) Program 2004-2014.

The following items were examined:

- Pressurizer Heater Penetrations
- Steam Generator Nozzle to Safe End Welds
- Steam Generator Channel Head to Tubesheet Weld
- Class 1 and Class 2 Piping Welds
- Class 1, Class 2 and Class 3 Piping and Component Supports and Hangers
- Class 1 Valves
- Class 1 and Class 2 Steam Generator Primary Manway Bolting, Pressurizer Manway Bolting, Flange Bolting and Valve Bonnet Bolting
- Steam Generator Main Steam Nozzle to Vessel Weld and Main Steam Nozzle Inner Radius
- Letdown Heat Exchanger Circumferential Weld

- Charging Pump Pulsation Dampener Circumferential Weld
- Seal Water Injection Filter Circumferential Weld
- Regenerative Heat Exchanger Circumferential Weld and Welded Attachment
- Class 2 Safety Injection Pump Casing Weld
- Class 2 Preservice of Safety Injection Piping and Supports
- Class 2 Preservice of Residual Heat Removal Piping and Supports
- Class 1 System Leakage Test
- Class 2 and Class 3 System Leakage Tests

EXAMINATIONS

The examinations performed were in accordance with an approved Inservice Inspection Program Plan located under Tab C of the final report. Examination Procedures were approved prior to the start of examinations and certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Some of the arrangements and details of the Kewaunee Power Station Components and Piping Systems were designed and fabricated before ASME Boiler and Pressure Vessel Code Section XI Code requirements were established. Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical or design/access restrictions. In each case, the occurrence and cause of the limitation was documented. In all cases, the maximum achievable amount of surface or volume was examined.

Witnessing and surveillance of the examinations were conducted by personnel from: Nuclear Regulatory Commission and Hartford Steam Boiler Inspection and Insurance Company of CT.

RESULTS

Examinations resulted with the following Relevant Conditions being noted on the basis of procedure recording criteria.

Relevant Conditions detected during the 2012 Refueling Outage are listed in Table 1 along with a brief summary. Specific data relative to all Relevant Conditions and their disposition by either (1) corrective measures or, (2) acceptance by ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda Acceptance Criteria or Evaluation are located in Tab F of the Final Report.

TABLE 1

<u>TYPE OR LOCATION OF RELEVANT CONDITIONS</u>	<u>METHOD</u>	<u>NO. OF RELEVANT CONDITIONS</u>
• Piping Supports and Hangers	Visual (VT-3)	6 Items
• Valve Bonnet Bolting	Visual (VT-3)	2 Items
• System Leakage Pressure Tests	Visual (VT-2)	19 Items

1. Visual (VT-3) Relevant Conditions on 3" Auxiliary Feedwater Piping Supports FDW-H41 and FDW-H41B were Evaluated and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.
2. Visual (VT-3) Relevant Condition on 2" Safety Injection Support RSI-H7 was Evaluated and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.
3. Visual (VT-3) Relevant Conditions on 6" Main Steam Valve Supports MSR-H1 and MSR-H2 were Evaluated, Repaired and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.
4. Visual (VT-3) Relevant Condition on 8" Service Water Support RSW-H62 was Evaluated, Repaired and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.
5. Visual (VT-3) Relevant Conditions recorded on Valve Bonnet Bolting (2 Valves), were Evaluated and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.
6. Visual (VT-2) Relevant Conditions recorded during System Leakage Pressure Tests (19 Items) were: Evaluated and Accepted by: Kewaunee Power Station Engineering and Inservice Inspection Personnel and reviewed by the Authorized Nuclear Inservice Inspector.

SUMMARY

An Inservice Inspection Program was performed at the Kewaunee Power Station from July 28, 2011 through April 5, 2012 (Non-Refueling Outage) and from April 6, 2012 through May 10, 2012 (Closing of G1 following Refueling Outage). Examinations were performed as scheduled in the Kewaunee Power Station Fourth 10-Year Inservice Inspection (ISI) Program 2004 -2014 to continue examinations for the 4th Interval; 3rd Period. A total of 27 Relevant Conditions were detected. All Relevant Conditions were corrected or accepted by ASME Boiler and Pressure Vessel Code Section XI, 1998 Edition, 2000 Addenda Acceptance Criteria or Evaluation requirements.

Phillip E. Bukes May 11, 2012
Phillip E. Bukes Date
Engineering Programs
Inservice Inspection Program Owner

ATTACHMENT 3

2012 INSERVICE INSPECTION SUMMARY REPORT

**EXAMINATION SUMMARY FOR
CLASS MC INSERVICE INSPECTION PROGRAM
FOR SECOND TEN-YEAR INTERVAL**

**KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.**

**KEWAUNEE POWER STATION
2ND INTERVAL: 2ND PERIOD: 2ND OUTAGE
2012
EXAMINATION SUMMARY**

INTRODUCTION

An Inservice Inspection (ISI) Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Power Station from April 6, 2012 through May 10, 2012 (Closing of G1 following Refueling Outage) by Kewaunee Power Station and Lambert, MacGill and Thomas Inc. examination personnel.

Examinations were performed to satisfy the requirements of:

- ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition, 2003 Addenda

The Inservice Inspection Program Plan located under Tab C was prepared by Kewaunee Power Station for the 2nd Interval; 2nd Period; 2nd Outage as identified in the Kewaunee Power Station Second 10-Year Inservice Inspection (ISI) Program 2006-2016. Examinations during this Refueling Outage were performed to complete the 2nd Interval, 2nd Period examination requirements of ASME Boiler and Pressure Vessel Code Section XI, 2001 Edition, 2003 Addenda and Kewaunee Power Station Second 10-Year Inservice Inspection (ISI) Program 2006-2016.

The following items were examined for the Class MC Reactor Building Containment Vessel:

- Accessible Surface Areas
- Bolted Connections

EXAMINATIONS

The examinations performed were in accordance with an approved Inservice Inspection Program Plan located under Tab C of the final report. Examination Procedures were approved prior to the start of examinations and certification documents relative to personnel, equipment and materials were reviewed and determined to be satisfactory.

Some of the arrangements and details of the Kewaunee Power Station Components and Piping Systems were designed and fabricated before ASME Boiler and Pressure Vessel Code Section XI Code requirements were established. Examinations performed were intended to examine 100% of the required surface or volume. In some cases, examinations were limited by geometric, metallurgical or design/access restrictions. In all cases the maximum achievable amount of surface or volume was examined.

Witnessing and surveillance of the examinations were conducted by Hartford Steam Boiler Inspection and Insurance Company of CT.

RESULTS

Examinations resulted in No Relevant Conditions being noted on the basis of procedure recording criteria.

SUMMARY

An Inservice Inspection Program for the Class MC Reactor Building Containment Vessel was performed at the Kewaunee Power Station from April 6, 2012 through May 10, 2012 (Closing of G1 following Refueling Outage). Examinations were performed as scheduled in the Kewaunee Power Station Second 10-Year Inservice Inspection (ISI) Program 2006-2016. Examinations resulted in No Relevant Conditions being noted on the basis of procedure recording criteria.

Phillip E. Bukes *May 11, 2012*

Phillip E. Bukes Date
Engineering Programs
Inservice Inspection Program Owner

ATTACHMENT 4

2012 INSERVICE INSPECTION SUMMARY REPORT

**SUMMARY OF EXAMINATIONS THAT WERE LIMITED BY GEOMETRIC,
METALLURGICAL, OR DESIGN/ACCESS RESTRICTIONS (10 TOTAL)**

**KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.**

**SUMMARY OF EXAMINATIONS THAT WERE LIMITED BY GEOMETRIC,
METALLURGICAL, OR DESIGN/ACCESS RESTRICTIONS**

Year	Component Identification	Method of Examination	% Recorded as Not Examined and Limitation
2012	Regenerative Heat Exchanger Tubesheet To Shell Weld ARG-W11	UT	30.0% Rigid Clamp Support and 3 Welded Lugs
2012	Letdown Heat Exchanger Head Circumferential Weld AHNR-W2	UT	59.0% 2 Integrally Welded Attachments and 2 2" Nozzles
2012	Seal Water Injection Filter 1A Shell Circumferential Weld AFSI-W1	UT	23.0% Welded Name Plate and Integrally Welded Support For Filter Cover
2012	Circumferential Pipe Weld SI-W52 on 4" Safety Injection	UT	50.0% Reducer To Pipe Weld Configuration
2012	Circumferential Pipe Weld RHR-W229 on 8" Residual Heat Removal	UT	17.0% Pipe To Tee Weld Configuration
2012	Circumferential Pipe Weld RHR-W436 on 12" Residual Heat Removal	UT	50.0% Valve To Pipe Weld Configuration
2012	Circumferential Pipe Weld RHR-W437 on 12" Residual Heat Removal	UT	54.0% Pipe To Valve Weld Configuration and 2 Gamma Plugs
2012	Circumferential Pipe Weld RHR-W438 on 12" Residual Heat Removal	UT	50.0% Valve To Pipe Weld Configuration
2012	Circumferential Pipe Weld RHR-W439 on 12" Residual Heat Removal	UT	54.0% Pipe To Valve Weld Configuration and 2 Gamma Plugs
2012	Circumferential Pipe Weld AFW-W192 on 3" Auxiliary Feedwater	UT	15.0% Flange To Pipe Weld Configuration

ATTACHMENT 5

2012 INSERVICE INSPECTION SUMMARY REPORT

FORM OAR-1 OWNER'S ACTIVITY REPORT

**TABLE 1 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED
EVALUATION FOR CONTINUED SERVICE**

**TABLE 2 ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED
FOR CONTINUED SERVICE**

**KEWAUNEE POWER STATION
DOMINION ENERGY KEWAUNEE, INC.**



Form OAR-1 Owner's Activity Report

Report Number: 2012 Refueling Outage Class 1, Class 2 and Class 3

Plant Kewaunee Power Station, N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. No.1 Commercial service date June 16,1974 Refueling outage no. K1R32
(if applicable)

Current inspection interval 4th
(1st, 2nd, 3rd, 4th, other)

Current inspection period 3rd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 1998 Edition 2000 Addenda

Date and revision of inspection plans September 14, 2010 Revision 4

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans
Not Applicable

Code Cases used: N-460, N-498-4, N-532-4, N-566-2, N-722-1 and N-770-1
(if applicable)

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of KR32 conform to the requirements of Section XI.
(refueling outage number)

Signed Phillip C. Bakes Inservice Inspection Program Owner Date May 29, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of WISCONSIN and employed by NSBCT of Hartford CT, have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature James W. Nierny Commissions NB11622 AB/N, WI 100131
National Board, State, Province and Endorsements

Date 31 MAY 12



Form OAR-1 Owner's Activity Report

Report Number: 2012 Refueling Outage Class MC

Plant Kewaunee Power Station, N490 Highway 42, Kewaunee, Wisconsin 54216-9511

Unit No. No.1 Commercial service date June 16, 1974 Refueling outage no. K1R32
(if applicable)

Current inspection interval 2nd
(1st, 2nd, 3rd, 4th, other)

Current inspection period 2nd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2001 Edition 2003 Addenda

Date and revision of inspection plans March 9, 2009 Revision 3

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans
Not Applicable

Code Cases used: N-532-4
(if applicable)

CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of KR32 conform to the requirements of Section XI.
(refueling outage number)

Signed Phillips C. Bukes Inservice Inspection Program Owner Date May 11, 2012
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of WISCONSIN and employed by HSBCT of HARTFORD CT. have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

James W. Niemerg Commissions NB 11622 ABIN WI 100131
Inspector's Signature National Board, State, Province and Endorsements

Date 11 MAY 12

Kewaunee Power Station
Table 1 - 4th Interval: 3rd Period: 2nd Outage - KR32
Items with Flaws or Relevant Conditions that
Required Evaluation For Continued Service

Examination Category	Item Number	Item Description	Evaluation Description
B-G-2	B7.70	3" VALVE PS-1B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALAUTION.
B-G-2	B7.70	8" VALVE RHR-1A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
B-P	B15.60	REACTOR COOLANT PUMP 1B MAIN FLANGE. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
B-P	B15.70	1.0" VALVE RC-413. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
B-P	B15.70	0.75" VALVE SI-45B. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ENGINEERING EVALUATION.
C-H	C7.10	12" VALVE SI-351A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
C-H	C7.10	6" VALVE RHR-400A. EVIDENCE OF COOLANT LEAKAGE.	ACCEPTABLE PER ASME SECTION XI CODE CASE N-566-2.
F-A	F1.10C	RSI-H7. MISALIGNMENT OF SUPPORT.	ACCEPTABLE PER ENGINEERING EVALUATION.
F-A	F1.20A	FDW-H41. MISALIGNMENT OF SUPPORT.	ACCEPTABLE PER ENGINEERING EVALUATION.
F-A	F1.20C	FDW-H41B. MIASLIGNMENT OF SUPPORT.	ACCEPTABLE PER ENGINEERING EVALUATION.

Kewaunee Power Station
Table 2 - 4th Interval: 3rd Period: 2nd Outage - KR32
Abstract of Repair/Replacement Activities
Required for Continued Service

Code Class	Item Description	Description of Work	Date Complete	Repair / Replacement Plan Number
1	0.75" VALVE CVC-236B	REPAIR DUE TO EVIDENCE OF LEAKAGE.	05/09/2012	KW100898729
1	0.75" VALVE SI-44B	REPAIR DUE TO EVIDENCE OF LEAKAGE.	05/09/2012	KW100898730
1	1" FLANGE DOWNSTREAM OF RC-43-2	REPLACE FLANGE STUDS DUE TO DAMAGE.	05/08/2012	KW100764227
1	STEAM GENERATOR 1A AND 1B WELDED SUPPORT PADS	REPAIR DUE TO LOOSE BOLTING.	04/26/2012	KW100887793
2	0.75" PIPING TO VALVE RHR-600	REPAIR DUE TO THROUGH WALL LEAK.	05/10/2012	KW100894787
2	2" VALVE CVC-10	REPAIR BY SEAL WELDING DUE TO EVIDENCE OF LEAKAGE.	05/10/2012	KW100880536
2	2" VALVE LD-13	REPLACE DUE TO EVIDENCE OF LEAKAGE.	04/25/2012	KW100843446
2	3" HYDRAULIC SNUUBER RSI-H2	REPAIR DUE TO DAMAGED CLAMP FASTENERS.	05/22/2012	KW100881586
2	3" VALVE CVC-4A	REPLACE VALVE BONNET STUDS DUE TO THREAD ENGAGEMENT.	04/28/2012	KW100780980
2	6" SUPPORT MSRH-H1	REPAIR DUE TO OUTSIDE COLD SETTING AND BROKEN BOLT.	05/11/2012	KW100884240 and KW100889310.
2	6" SUPPORT MSRH-H2	REPAIR DUE TO OUTSIDE COLD SETTING.	05/11/2012	KW100883633
3	3" VALVE SW-30B2	REPLACE DUE TO LEAKAGE BY SEAT.	05/22/2012	KW100787871
3	3" VALVE SW-914D	REPLACE DUE TO DEGRADATION.	05/22/2012	KW100801068
3	COMPONENT COOLING WATER PUMP 1A CASING	REPLACE DUE TO MATERIAL LOSS.	04/28/2011	KW100413571
3	COMPONENT COOLING WATER PUMP 1B INSPECTION PORT PLUGS	REPLACE DUE TO EVIDENCE OF LEAKAGE.	01/23/2012	KW100666359
3	DIESEL GENERATOR 1A INBOARD AND OUTBOARD JACKET WATER COOLERS TUBE BUNDLES	REPLACE DUE TO EVIDENCE OF LEAKAGE.	05/19/2011	KW100273546
3	SERVICE WATER PUMP 1B1	REPLACE DUE TO HIGH VIBRATION.	05/19/2011	KW100784137